BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Improvements to roads and drains in Vishwanagara near Sambram college in Attur layout Ward No. 03

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
1	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No-27,I No-5.33)								
	For Drain Desilt	Sqm							
	Vishwanagara								
	Main Road		2	347.00	0.90		624.60		
	3rd cross		1	123.00	0.90		110.70		
	2nd cross A		1	48.00	0.90		43.20		
	2nd cross		2	123.00	0.90		221.40		
	Cross road		1	43.00	0.90		38.70		
							1038.60		
	consider 50% for R & R						519.30		
							519.30	111.30	**57798.09**
	Basic Rate Rs.=	105.00							
	Add 6% A.W Rs. =	6.30							
	Total Rate Rs. =	**111.30**							
2	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (P.No-143, I.No-19.1)								
	For Drain Desilt	Cum							
	Vishwanagara								
	Main Road		2	347.00	0.60	0.50	208.20		
	3rd cross		1	123.00	0.60	0.50	36.90		
	2nd cross A		1	48.00	0.60	0.50	14.40		
	2nd cross		2	123.00	0.60	0.50	73.80		
	Cross road		1	43.00	0.60	0.40	10.32		
	Berm cutting								
	Vishwanagara								
	Main Road		2	347.00	1.00	0.30	208.20		
	For RCC Drain								
	Basavalinganagara								
	Cross Road-1		2	75.00	1.20	1.10	198.00		
	Cross Road-3		2	78.00	1.20	1.10	205.92		
							955.74	215.28	**205751.71**
	Basic Rate Rs.=	130.00							
	Add 6% A.W Rs. =	7.80							
	Sub Total =	137.80							
	8Km Lead, Loading and Unloading =(2*1.28*8)+57	77.48							
	Total Rate Rs. =	**215.28**							
3	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)								
	For RCC Drain	Cum							
	Basavalinganagara								
	Cross Road-1		2	75.00	1.20	0.15	27.00		
	Cross Road-3		2	78.00	1.20	0.15	28.08		
	For Concrete Road								
	Vishwanagara								

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
	Cross Road 1		2	123.00	3.00	0.15	110.70		
	Cross Road 2		2	48.00	3.00	0.15	43.20		
	For Kerb stone								
	Vishwanagara								
	Main Road		2	347.00	0.20	0.10	13.88		
	3rd cross		2	123.00	0.20	0.10	4.92		
	2nd cross		2	123.00	0.20	0.10	4.92		
							232.70	5421.90	**1261676.13**
	Basic Rate Rs.=	5115.00							
	Add 6% A.W Rs. =	306.90							
	Total Rate Rs. =	**5421.90**							
4	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of material labour HOM complete as per specification. (P.No.271, I.No.37.59.2 of PW, P&IWTD S.R 2018-19)								
	For RCC Drain	Cum							
	Basavalinganagara								
	Bottom slab								
	Cross Road-1		2	75.00	1.10	0.15	24.75		
	Cross Road-3		2	78.00	1.10	0.15	25.74		
	side walls								
	Cross Road-1		4	75.00	0.15	0.70	31.50		
	Cross Road-3		4	78.00	0.15	0.60	28.08		
							110.07		
	RCC Drain Rising								
	Vishwanagara								
	Main Road		4	347.00	0.15	0.40	83.28		
	3rd cross		2	123.00	0.15	0.40	14.76		
	2nd cross		4	123.00	0.15	0.40	29.52		
							127.56		
					Net Qty.		**237.63**	7070.20	**1680091.63**
	Basic Rate Rs.=	6670.00							
	Add 6% A.W Rs. =	400.20							
	Total Rate Rs. =	**7070.20**							
5	KSRRB - M2300-14: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.MORTH Specification No. 1600 & 2200 for TMT bars Fe 500. (P.No.239, I.No.29.29.2 of PW, P&IWTD S.R 2018-19)								
	Considering steel For Drain rising @ 40 kg / cum	Tonne		127.56	0.040	--	5.10		
	Considering steel For Drain @ 70 kg / cum	Tonne		110.07	0.070	--	7.70		
							12.81	73992.24	**947640.82**
	Basic Rate Rs.=	69804.00							
	Add 6% A.W Rs. =	4188.24							
	Total Rate Rs. =	**73992.24**							

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
6	Providing and fixing RCC precast cover slab of 100mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	For drain cover slab	Sqm							
	Basavalinganagara								
	Bottom slab								
	Cross Road-1		2	75.00	0.90	--	135.00		
	Cross Road-3		2	78.00	0.90	--	140.40		
	Vishwanagara								
	missing/damaged fm item no. 01					--	519.30		
							794.70	2337.00	**1857213.90**
7	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete. As per the direction of Engineer incharge. (P.No.27, I.No.5.30 of PW, P&IWTD SR 2018-19)								
	For Drain	Nos							
	Vishwanagara								
	Main Road		2	347.00			694.00		
	3rd cross		2	123.00			246.00		
	2nd cross		2	123.00			246.00		
							1186.00		
							2636.00	432.48	**1140017.28**
	Basic Rate Rs.=	408.00							
	Add 6% A.W Rs. =	24.48							
	Total Rate Rs. =	**432.48**							
8	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Specification No. KSRRB M800-6. (P.No.180, I.No.24.1 of PW, P&IWTD SR 2018-19)								
	For Drain	Sqm							
	Vishwanagara								
	Main Road		2	347.00	0.40		277.60		
	3rd cross		2	123.00	0.40		98.40		
	2nd cross		2	123.00	0.40		98.40		
							474.40	84.80	**40229.12**
	Basic Rate Rs.=	80.00							
	Add 6% A.W Rs. =	4.80							
	Total Rate Rs. =	**84.80**							
9	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202 with 8km lead= (I No-18.47,P No-140)								
	For Concrete Road	Cum							
	Vishwanagara								
	Cross Road 1								
	Cross Road 2		2	123.00	3.00	0.200	147.60		
			2	48.00	3.00	0.200	57.60		
							205.20	973.42	**199745.78**
	Basic Rate Rs.=	899.00							
	Add 6% A.W Rs. =	53.94							
	Sub Total =	952.94							

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
	8Km Lead, Loading and Unloading =(2*1.28*8)	20.48							
	Total Rate Rs. =	**973.42**							
10	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision.(I No-20.5,P No-153)								
	For Concrete Road	Cum							
	Vishwanagara								
	Cross Road 1		2	123.00	1.00	0.150	36.90		
	Cross Road 2		2	48.00	1.00	0.150	14.40		
							51.30	1994.92	**102339.40**
	Basic Rate Rs.=	1882.00							
	Add 6% A.W Rs. =	112.92							
	Total Rate Rs. =	**1994.92**							
11	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete M30 with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum. over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 lts conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour,hire charges of machineries,all lead & lift charges etc., complete as per specifications. (P.No-176,I No-22.6.1)								
	For Concrete Road	Cum							
	Vishwanagara								
	Cross Road 1		2	123.00	3.00	0.150	110.70		
	Cross Road 2		2	48.00	3.00	0.150	43.20		
							153.90	5210.96	**801966.74**
	Basic Rate Rs.=	4916.00							
	Add 6% A.W Rs. =	294.96							
	Total Rate Rs. =	**5210.96**							
12	Vaccum De- writing with vaccum pump and suction mat and compaction with skin flater clubbed with floatiog disc including cost of generator, HOM of machinery Sereed Vibratory Power Floaterblade and diisc etc. with all lead and lift. (Page No 176 Item No 22.7)								
	For Concrete Road	Sqm							
	Vishwanagara								
	Cross Road 1		2	123.00	3.00		738.00		
	Cross Road 2		2	48.00	3.00		288.00		
							1026.00	72.08	**73954.08**
	Basic Rate Rs.=	68.00							
	Add 6% A.W Rs. =	4.08							
	Total Rate Rs. =	**72.08**							
							Sub Total 1 Rs.		**8368424.67**

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
	Add GST @ 12%								1004210.9
	Add KRIDL @ 4%								334736.9
	DPR & PMC Charges including GST								192000.0
								Sub Total 2 Rs.	9899372.6
	Miscellaneous & Rounding off								627.3
								Total Rs.	9900000.0

CERTIFICATE:

1 The work spot has been inspected by me and the work is found to be necessary
2 The estimate is prepared as per PW, P&IWTD S.R Bangalore circle for the year 2018-2019.
3 The Provisions made in the estimate are quite necessary and adequate.
4 The area comes with in the BBMP limits.

Assistant Engineer
Ward 03
BBMP

Assistant Executive Engineer
Yelahanka Newtown Sub Division
BBMP

Executive Engineer
Yelahanka Division
BBMP

Administrative Sanction for Rs. 99.00 Lakhs
Ninety nine Lakhs only
is accorded under head P-3727 2018-19
Chief Minister Nava nagarothana
grants
Registered as CE No. ..... Subject
to conditions contained in ..... dt. .....
No. EE/YNK/AS/39/2019-20 Dt. 28/10/2019

Executive Engineer

Technical Sanction
Accorded For R.S. 99.00 Lakhs only
Head of A/C... P 3727
CER NO :... 109 ... Dt:.. 28.10.2019

TA — CE (YNK)

VISHWANAGARA MAIN ROAD

Ch:0m

Cross Road

Ch:347m

Ch:43m
Ch:0m

MAIN ROAD

Ch:0m

Ch:0m

Ch:48m

2nd Cross

2nd Cross A

3rd Cross

Ch:123m

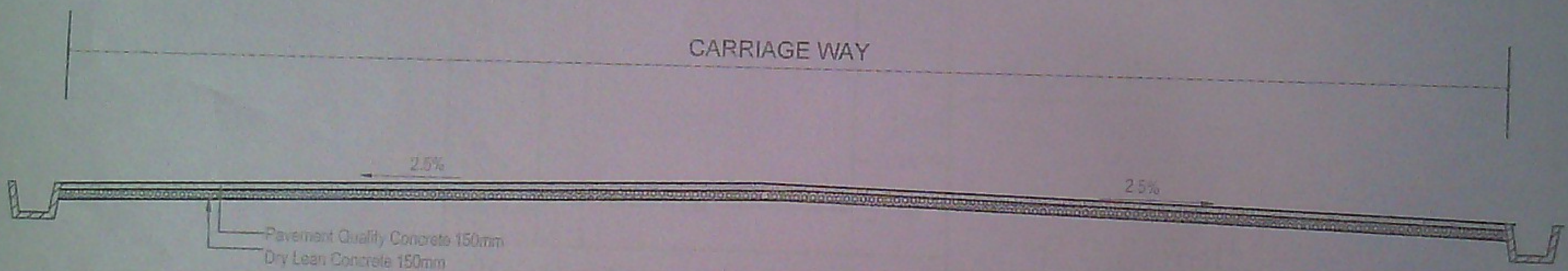
Ch:123m

Ch:0m

RING ROAD

ಕಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

CLIENT: BRUHAT BANGALORE MAHANAGARA PALIKE	PROJECT: Improvements to roads and drains in Vishwanagara near Sampangi college in Attur layout Ward No. 03	Drg Title: LAY	CC COVERING SLAB



Proposed typical Cross section of Concrete Road

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಜಿ.ಬಿ.ಎ.ಎ. ಬೆಂಗಳೂರು-106